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PATENT

Attorney Docket No. HMV-006.11

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Philip W. Ingham et al.

Serial No.: 08/954,771

Filing Date: October 20, 1997

For: *Vertebrate Embryonic Pattern Inducing
Proteins and Uses Related Thereto*

Art Unit: 1646

Examiner: M. Brannock

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this Response is being submitted by facsimile transmission
to the Assistant Commissioner for Patents/Office of Examiner M. Brannock
(703) 308-0294 on this date of July 31, 2000.

Lee Dunkle
Lee Dunkle

Fourth Preliminary Amendment

Sir:

Prior to Examination of this application, please amend the claims as follows:

IN THE CLAIMS:

Please cancel claims 94-95, and 101, and amend the following claims:

Sub
G1H5
1. (Twice Amended) A method for [modulating] promoting one or more of growth,
differentiation and survival of neuronal cells, comprising contacting said cells with an effective
amount of a *hedgehog* polypeptide.

G2
96. (Amended) The method of claim 1, wherein said polypeptide includes an [*hedgehog*] amino
acid sequence encoded by a naturally occurring vertebrate *hedgehog* gene.